

Two shoppers, One purpose

Jenn and Jermaine had a little argument about shopping. Jenn said that she could shop for things cheaper than Jermaine, because “guys don’t know how to shop.” Jermaine thought that was ridiculous and challenged her to a shopping match. “You’re on” she said. “Great” said Jermaine, “Save your receipt and you need to include the cost of travel to get to the store.” Jenn agreed to these conditions and they were ready to go.

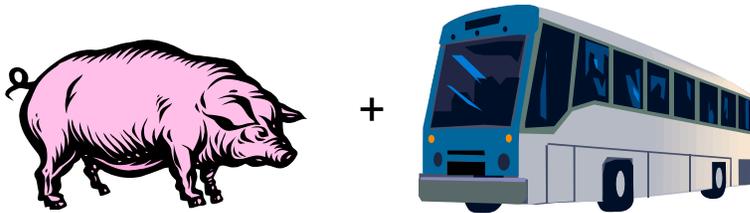
Jenn had an energy efficient hybrid car, so she felt confident that she would win, because Jermaine drove a truck. Puggly Wuggly was far away, but she thought the cheap prices at Puggly’s \$2/item bag day sale would be worth the drive. She spent \$2.00 on gas for the whole trip.

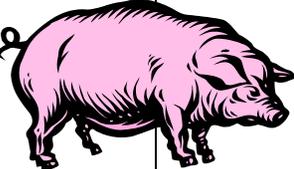
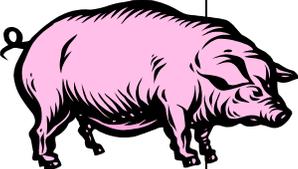
Jermaine knew about the Puggly Bag Sale too. But he didn’t drive his truck. He took the bus and it cost him \$1.50.

Model the contest between the two with linear equations and then graph them. Answer the questions and be prepared to discuss with the class.

Mathematical Models





<p>x Number of Items</p>	<p>Rule Math Model</p>	<p>y Cost</p>	<p>x Number of Items</p>	<p>Rule Math Model</p>	<p>y Cost</p>
	<p>+</p>			<p>+</p> 	